LIST OF U.S. CUSTOMS LABORATORY METHODS

USCL NUMBER	METHOD	TITLE
26-01	ASTM E 246	Test Method for Iron in Iron Ores and Related Materials by Hydrogen Sulfide Reduction and Dichromate Titration
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26-03	ASTM E 945	Test Method for Chemical Analysis of Zinc Ores, Concentrates and Related Materials
26-04	ASTM E 342	Test Method for Chromium Oxide in Chrome Ores
26-05	ASTM E 1244	Test Method for X-Ray Fluorescence Analysis of Tantalite and Columbite Ores and Slags by Lithium Tetraborate Fusion
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ASTM E 246

Test Method for Iron in Iron Ores and Related Materials by Hydrogen Sulfide Reduction and Dichromate Titration

SAFETY PRECAUTIONS

This method does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this method to establish appropriate safety and health pract ices and determine the applicability of regulatory limitations prior to its use.

1 SCOPE AND FIELD OF APPLICATION

This method covers the determination of total iron in iron ores, concentrates, and agglomerated in the concentration range from 30 to 75 percent. This method is suitable for Section V of Chapter 26 for Heading 2601 to Subheading 2601.20.00 of the Harmonized Tariff Schedule of the United States (HTSUS).

2 REFERENCES

ASTM E 246

Test Method for Iron in Iron Ores and Related Materials by Hydrogen Sulfide Reduction and Dichromate Titration

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ASTM E 465 Test Methods for Manganese Dioxide in Manganese Ores

SAFETY PRECAUTIONS

This method does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this method to establish appropriate safety and health pract ices and determine the applicability of regulatory limitations prior to its use.

1 **SCOPE AND FIELD OF APPLICATION**

These methods a) manganese by ferrous ammonium sulfate method and b) by sodium oxalate method cover the determination of manganese dioxide in an amount commonly found in manganese ore. The determination measures the amount of quadrivalent manganese present in the sample. This method is suitable for analyzing manganese content for Section V of Chapter 26 Subheading 2602.00.00 of the Harmonized Tariff Schedule of the United States (HTSUS).

2 **REFERENCES**

ASTM E 465

Test Methods for Manganese Dioxide in Manganese Ores

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ASTM E 945 Test Method for Chemical Analysis of Zinc Ores, Concentrates and Related Materials

SAFETY PRECAUTIONS

This method does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this method to establish appropriate safety and health pract ices and determine the applicability of regulatory limitations prior to its use.

1 SCOPE AND FIELD OF APPLICATION

This method covers the procedures for the chemical analysis of zinc ores, concentrates and related materials by EDTA (ethylene diamine tetraacetic acid) titration method in the concentration range from 5 to 70 percent. This method is suitable for analysis of zinc in Section V, Chapter 26 of the Harmonized Tariff Schedule of United States (HTSUS).

2 REFERENCES

ASTM E 945

Test Method for Chemical Analysis of Zinc Ores, Concentrates and Related Materials

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ASTM E 342 Test Method for Chromium Oxide in Chrome Ores

SAFETY PRECAUTIONS

This method does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this method to establish appropriate safety and health pract ices and determine the applicability of regulatory limitations prior to its use.

1 SCOPE AND FIELD OF APPLICATION

This method covers the determination of chromium oxide in chrome ores in the concentration range from 25 to 60 percent. This method is suitable for analysis of chromic oxide in Section V, Chapter 26 for Subheading 2610.00.00 of the Harmonized Tariff Schedule of the United States (HTSUS).

2 REFERENCES

ASTM E 342

Test Method for Chromium Oxide in Chrome Ores

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ASTM E 1244

Test Method for X-Ray Fluorescence Analysis of Tantalite and Columbite Ores and Slags by Lithium Tetraborate Fusion Technique Utilizing Internal Standards

SAFETY PRECAUTIONS

This method does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this method to establish appropriate safety and health pract ices and determine the applicability of regulatory limitations prior to its use.

1 SCOPE AND FIELD OF APPLICATION

This method covers the X-ray emission spectrometric analysis of tantalite and columbite ores and slags for the following four constituents in the concentration ranges indicated:

Constituent	Concentration %
tantalum oxide columbium oxide	1.5 to 75 1.5 to 75
tin oxide	0.3 to 30
titanium oxide	0.5 to 40

This method may be useful in the analysis of commodities of Chapter 26 of the Harmonized Tariff Schedule of the United States (HTSUS).

2 REFERENCES

ASTM E 1244

Test Method for X-Ray Fluorescence Analysis of Tantalite and Columbite Ores and Slags by Lithium Tetraborate Fusion Technique Utilizing Internal Standards

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ASTM E 400 Test Method for Spectrographic Analysis of Ores, Minerals and Rocks by the Fire Assay Preconcentration Technique

SAFETY PRECAUTIONS

This method does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this method to establish appropriate safety and health pract ices and determine the applicability of regulatory limitations prior to its use.

1 SCOPE AND FIELD OF APPLICATION

This method employs the spectrographic analysis by the fire assay preconcentration technique of ores, minerals, and rocks for silver, palladium, platinum, gold and rhodium. The concentrations of precious metals which can be determined in the material being analyzed depend on the amount of sample assayed (note1). Concentration ranges for the lead fire assay beads are as follows:

2 REFERENCES

ASTM E 400

Test Method for Spectrographic Analysis of Ores, Minerals and Rocks by the Fire Assay Preconcentration Technique